

# Summary of National Activities during April 2017 – Oct. 2018



United Nations  
Educational, Scientific and  
Cultural Organization



Japanese National Committee  
for the International  
Hydrological Programme

## IHP-Japan

# Members of NatCom as of October 2018

	Name	Position
	CHIKAMORI, Hidetaka	Prof., Okayama University
	HARUYAMA, Shigeko	Prof., Mie University
	HIYAMA, Tetsuya	Prof., ISEE, Nagoya University
	HORI, Tomoharu	Prof., DPRI, Kyoto University
*	ISODA, Hiroko	Prof., University of Tsukuba
	KANAE, Shinjiro	Prof., Tokyo Institute of Technology
	KAZAMA, Futaba	Prof., University of Yamanashi
	KAZAMA, So	Prof., Tohoku University
	KAWAMURA, Akira	Prof., Tokyo Metropolitan University
	KOSUGI, Yoshiko	Prof., Kyoto University
*	KURODA, Reiko	Prof. The Tokyo University of Science
	MATSUKI, Hirotada	Water and Disaster Management Bureau, MLIT
	SAWANO, Hisaya	Deputy Director, ICHARM, PWRI
Chair*	TACHIKAWA, Yasuto	Prof., Kyoto University
	TANIGUCHI, Makoto	Prof., Research Institute for Humanity and Nature (RIHN)
	TSUJIMURA, Maki	Prof., University of Tsukuba

## Secretariat of the Japanese National Committee for IHP, UNESCO:

c/o Ms. HATA, Eri

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# Status of IHP-VIII activities and funding to promote IHP activities

- FA 1.1: Integrated Research Program for Advancing Climate Models: MEXT TOUGOU Project (2017-2021, PI: Prof. Nakakita at Kyoto Univ.)
- FA 2.1: UNESCO Chair on Water, Energy and Disaster Management for Sustainable Development (KUC-WENDI) at Kyoto University

# New Climate Change Research Program TOUGOU Program, 2017–2021 supported by MEXT

## Theme iv(a) Water-related hazard prediction for Southeast Asia and the Pacific

MRI provides multi-ensemble d4PDF 60km data for present and future climate projections, and will provide new GCM outputs simulated with 60km AGCM, 20km AGCM, and 5km NHRCM05 under RCP8.5 scenario for Southeast Asia and the Pacific.



1. Detailed analysis of water-related hazard and water resources under climate change
2. Flood and drought hazard assessment
3. Flood and drought risk assessment

## iv. Water-related hazard prediction for Southeast Asia and the Pacific

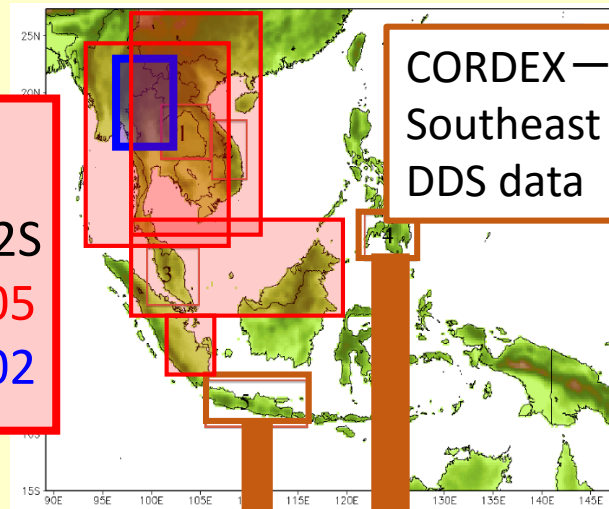
### iv(a) Water-related hazard prediction (Kyoto University)

1. Indochinese Peninsula: Hydrologic prediction (low flow and high flow) applying a newly developed bias collection method,
2. Chao Phraya River basin (Thailand): Water resources prediction applying a new land surface model incorporating irrigation scheme,
3. Batanhari River basin (Indonesia): Flood prediction and development of flood hazard mapping,
4. Red River basin (Viet Nam): Flood prediction and development of flood risk mapping.

### Collaboration with MRI for GCM projections

d4PDF  
AGCM3.2S  
NHRCM05  
NHRCM02

CORDEX—SEA II  
Southeast Asia  
DDS data



### iv(b) Prototype development for supporting climate change adaptation measures (ICHARM)

### Prototype development for supporting climate change adaptation implementation

1. Risk assessment of water-related disasters;
2. Field survey for needs and abilities for climate change adaptation; and
3. Supporting climate change adaptation for local stakeholders.

# Kyoto UNESCO Chair on Water, Energy and Disaster Management for Sustainable Development (KUC-WENDI)



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UNESCO Chair on Water,  
Energy and Disaster Management  
for Sustainable Development,  
Kyoto University, Japan



# IHP Training Courses

- 27<sup>th</sup> IHP Training Course by Kyoto University on “Integrated Basin Management under Changing Climate” at DPRI Kyoto Univ., 4 December - 15 December 2017.
- 28<sup>th</sup> IHP Training Course by Kyoto University on “Integrated Basin Management under Changing Climate” at DPRI Kyoto Univ., 28 November - 7 December 2018.

